(F)
Patents

PATENT APPLICATIONS BEING PREPARED

March 1976

I. Watson, Leavenworth, Kelton & Taggart

PM 606 - J. D. Hind

TREATMENT OF CIGARETTE PAPERS WITH AMINO ACIDS

Addition of certain amino acids to cigarette papers produces a milder-tasting smoke and a less sharp sidestream odor.

Because of much close prior art, some known and some revealed in searching, the invention was rethought and submitted in a narrowed form last April. It is this close art and the currently less liberal view of the Patent Office re cigarette additives which accounts for some of the delay here.

Mr. Hind still feels this is worth pursuing and has recently supplied some additional information. Revised application expected shortly.

PM 624 - Lina Teng

FLAVORANTS FOR SMOKING ARTICLES

Hydroxy esters from Reformatsky condensation of aromatic aldehydes with alpha-bromo-alpha-dialkyl carboxylic esters provide source of "cherry" flavor and the like in tobacco.

Application filed in Patent Office February 20.

PM 625 - N. B. Rainer
P. A. Wilson

INCORPORATING ORGANIC MOLECULES

Odorants or other compounds are entrapped in cellulose (e.g., paper) by treatment with liquid ammonia solution and evaporation of the solvent. The odor is retained until the paper is moistened.

Final application just received.

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Source: https://www.industrydocuments.ucsf.edu/docs/mgcj0000

PM 631 - N. B. Rainer
P. A. Wilson

TOBACCO STEM MATERIAL WITH IMPROVED FLAVOR AND METHOD OF MAKING IT

Tobacco is treated with oxidant in the presence of or followed by ammonia to improve smoking qualities including flavor and blandness.

Search results received, inventors' comments solicited.

PM 640 - J. F. DeBardeleben
T. S. Osdene
E. B. Sanders

l-cis-5' CYANONICOTINE

The compound has been synthesized from l-cotinine and found to be an effective control for rose aphids.

Draft application received; corrections returned.

PM 641 - G. Keritsis

NON-TOBACCO SMOKING MATERIALS

A variety of formulations for non-tobacco smoking materials was disclosed. They are characterized in giving acceptable smoke flavor with low "tar" delivery.

Inventor has narrowed definition somewhat; preparation of application(s) going forward actively. Draft application received January. Additions and corrections about to be returned.

PM 646 - J. S. Osborne
H. A. Hartung
J. F. Bebbs

SPARGING OF TOBACCO

Tobacco is subjected to treatment in a flow of inert gas at about 165°C until constant weight, with recovery from the gas of condensables. Condensate usable as flavorant for smoking product; tobacco may be basis for low-delivery, mild smoking product.

Second draft application just received, being reviewed by inventors.

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Source: https://www.industrydocuments.ucsf.edu/docs/mgcj0000

PM 647 - N. B. Rainer
T. E. Majewski

SYNTHETIC SMOKING MATERIAL

Shredded cellulose is pyrolyzed at 150-400°C to a weight loss of 15-40% then extracted with alkaline solvent to remove additional 15-40%. The product has sufficient integrity to be used in smoking products. Our interest in this area is well known.

PM 648 - W. Nichols

PROCESS OF MAKING LOW DENSITY MATERIAL P-S-P CIGARETTE FILTERS

Improvement on the Baumgartner apparatus for loading particulate material into the space between filter plugs ("plug-space-plug configuration), whereby material which is not free flowing is caused to fill the space completely and excess is recovered.

Application filed in Patent Office January 29.

PM 662 - R. B. Seligman
G. D. Keritsis

INCORPORATION OF HEAT-TREATED CARBOHYDRATE IN RCB BLEND MATRIX

Heat-treated carbohydrate is incorporated into an RCB matrix prior to casting to produce a sheet with a lowered tar and nicotine smoke.

PM 672 - J. B. Knight

CONTROL OF AIR RELATIVE HUMIDITY

Precise air conditioning control with much reduced energy requirements vs. present systems employing cool/reheat; especially applicable to tobacco reordering systems but with great potential elsewhere.

Case has been given some priority. Revised draft application expected soon.

PM 676 - N. B. Rainer

TREATMENT OF TOBACCO MATERIALS

Tobacco stems or stalks are subjected to pyrolysis causing weight loss up to 25%, then to aqueous alkali extraction; the residue is cut or reconstituted and blended with tobacco for smoking. This is closely related to PM 647 wherein cellulose is similarly treated.

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Source: https://www.industrydocuments.ucsf.edu/docs/mgcj0000

PM 682 - J. B. Knight

EXPANSION OF TOBACCO WITH CARBON DIOXIDE HYDRATE

Formation of carbon dioxide hydrate as the agent within tobacco for subsequent release of gas for puffing permits operation at lower pressures than with liquid CO_2.

Sent to attorneys as raw invention record. Final disclosure sent January 13.

PM 683 - S. Debrand

PROCESS FOR INCREASING THE FILLING CAPACITY OF TOBACCO

Filling capacity of tobacco is increased about 20% by treating at 85°/80% r.h. and reordering.

PM 684 - R. Devilbiss

AUTOMATIC INSERTER

Device inserts spacers between narrow packs in cigarette carton.

PM 689 - G. Keritsis

CROSS-LINKED SMOKING MATERIAL

To strengthn and reduce breakage of smoking materials, especially foamed or expanded, treat with polyfunctional hydroxy or amino compounds and polycarboxylic acids, etc.

PM 690 - A. T. Lendvay
H. Wakeham

CARBONIZATION OF TOBACCO PRODUCTS

Tobacco stem/stalk is thermalized, added to reconstituted tobacco to reduce TPM delivery.

PM 691 - C. G. Atwell
S. F. Spiers
W. H. Smick, III

HOPPER LEVEL AND CONTROL SYSTEM

Hopper for filter rods provided with simplified level control and sensor to

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Source: https://www.industrydocuments.ucsf.edu/docs/mgcj0000

call for refill.

In use July 13, 1975.

Second draft application just received.

PM 695 - A. Lendvay

UPGRADING TOBACCO STEM MATERIALS

Use of thermally treated stem material degraded to a 10% weight loss (at temperatures between 150°C and 350°C), removing harshness or odor by ventilation, steam, or water extraction (no catalyst used)—then incorporated in filler. Process upgrades stem material.

PM 696 - F. M. Watson III
W. G. Houck, Jr.
W. F. Mutter

PRESSURE DROP INSTRUMENT

A device which measures pressure drop with stabilization of flow rate and consequent removal of error with higher RTD.

PM 697 - A. T. Lendvay
B. M. Spann

CONTINUOUS PROCESS FOR TOBACCO EXPANSION

Tobacco on conveyor is sprayed with ammonium carbamate solution or with ammonium hydroxide solution followed by Dry Ice, then passed through expansion chamber.

Further information has been sent to attorneys.

PM 699 - H. J. Grubbs
W. R. Johnson, Jr.
T. V. Van Auken

MIXED PACK OF MENTHOL AND REGULAR CIGARETS

Menthol retention insured by chemical binding to polymer for release on smoking.

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PM 709 - W. A. Geiszler, Jr.
W. C. Hopkins

MIXED PACK OF CIGARETS CONTAINING VARIOUS VOLATILE FLAVORS IN ENCAPSULATED FORM

Menthol or other flavor retention insured by physical encapsulation. See PM 699.

PM 713 - G. D. Keritsis

TOBACCO REPLACEMENT MATERIAL

Chitin or chitosan as base for substitute smoking material.

PM 721 - Ranjit Sen

TRANSFER APPARATUS AND SYSTEMS FOR ARTICLE WEIGHING

For weighing of individual cigarets, a device loads cigarettes on a balance one at a time. It weighs each one and sorts them into accept or reject bins. It further prints a report showing the weight of each cigarette and gives other data as instructed by the operator.

A draft application is expected shortly.

II. Cameron, Kerkam, Sutton, Stowell & Stowell

PM 660 - S. Spiers
H. Lewis (Mgf. Eng.)
G. Kraft
A. Pasquine

CIGARETTE INSPECTION DEVICE (CID) PERFORATOR

System for use in conjunction with a Molins Cigarette Inspection Device Type 4, whereby the device can be automatically tested, and the sensitivity corrected as necessary by the operator. Correction heretofore was by trial and error.

Disclosure Document filed in Patent Office November 11.

Draft application received, being reviewed. Extensive drawing changes required.

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Source: https://www.industrydocuments.ucsf.edu/docs/mgcj0000

PM 688 - I. R. Feins

ACTIVATOR FOR CO OXIDATION CATALYSTS

Hydrogen peroxide on porous polymer.

Disclosure Document filed in Patent Office. Revised disclosure in preparation, case as submitted withdrawn.

III. Baker & McKenzie

PM 679 - T. A. Newman
E. O. Kettner

APPARATUS FOR RECLAIMING TOBACCO FROM FILTER CIGARETTES

In place of the conventional ripping and screening process, cigarettes are gripped at the filter and an air blast removes the tobacco cleanly.

Close prior art has been uncovered. Final application received in January. Execution delayed by failure of W.L.K.& T. to approve.

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Source: https://www.industrydocuments.ucsf.edu/docs/mgcj0000

APR 15 1975

T. S. OSDENE

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